VIDAS ARRETT STEINKRAUS AVAILABLE COPY 0004

Application No. 10/673769
Page 3

Amendment
Attorney Docket No. 011.2B-11338-US01

Amendments To The Claims:

1. (Currently amended) A the mal spray powder comprising:

molybdenum disulfide particles composed of molybdenum disulfide; and
a coating layer provided on a surface of each of the molybdenum disulfide particles,
wherein the coating layer is composed of a metal that is softened or melted at a temperature
lower than the heat decomposition remperature of the molybdenum disulfide.

wherein the percentage of particles having a particle size of 5 µm or smaller contained in the thermal spray powder is no mo than 5%, and the percentage of particles having a particle size of 75 µm or larger contained in the thermal spray powder is no more than 5%.

- 2. (Currently amended) The ...ermal spray powder according to claim 1, wherein the coating layer is provided on the entre surface of the each molybdenum disulfide particle.
- 3. (Original) The thermal spray powder according to claim 1, wherein the content of the molybdenum disulfide in the thermal spray powder is 30% to 90% by weight, and the content of the metal in the thermal spray powder is 10% to 70% by weight.
- 4. (Original) The thermal spray powder according to claim 3, wherein the content of the molybdenum disulfide is 40% to 81% by weight, and the content of the metal is 20% to 60% by weight.
- 5. (Original) The thermal spray powder according to claim 1, wherein the metal is copper.
- 6. (Original) The thermal spray powder according to claim 5, wherein the content of the molybdenum disulfide in the thermal spray powder is 30% to 90% by weight, and the content of the copper in the thermal spray powder is 10% to 70% by weight.
- 7. (Original) The thermal spray powder according to claim 6, wherein the content of the molybdenum disulfide is 40% to 8.1% by weight, and the content of the copper is 20% to 60% by

Application No. 10/673769
Page 4

Amendment
Attorney Docket No. 011.2B-11338-US01

weight.

- 8. (Canceled) A process for producing a thermal spray powder, the process comprising:

 preparing particles composed of molybdenum disulfide; and

 providing a coating layer on a surface of each of the particles by an electroless plating

 method, wherein the coating layer as composed of a metal that is softened or melted at a

 temperature lower than the heat decomposition temperature of the molybdenum disulfide.
- 9. (Canceled) A process for producing a thermal spray powder, the process comprising:

 preparing particles composed of molybdenum disulfide; and

 providing a coating layer composed of copper on a surface of each of the particles by an electroless plating method.
- 10. (Canceled) A method for thermal spraying a thermal spray powder, the method comprising:

Preparing the thermal spray powder, wherein the thermal spray powder includes:

particles composed of molybdenum disulfide; and
a coating layer provided on a surface of each of the particles, wherein the coating
layer is composed of a metal that is softened or melted at a temperature lower than
the heat decomposition temperature of the molybdenum disulfide; and
feeding the thermal spray powder to a flame in order to soften or melt the thermal
spray powder, wherein a cylindrical air stream passes around the flame, and
wherein the thermal spray powder fed to the flame passes through the inside of the
air stream to be softened or melted in the inside of the air stream, and the powder
is subsequently sprayed into a substrate.

11. (New) The therma! spray powder according to claim 1, wherein the coating layer is formed by electroless plating.